

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 17881-11-IPC	FOR FURTHER ACTION	see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.
International application No. PCT/US03/35289	International filing date (<i>day/month/year</i>) 04 November 2003 (04.11.2003)	(Earliest) Priority Date (<i>day/month/year</i>) 04 November 2002 (04.11.2002)
Applicant ICOGEN CORPORATION		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing:



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (See Box II).

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No. _____



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures

Handwritten signature

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/35289

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 15/00; G01N 33/53, 33/567; A61K 49/00

US CL : 435/7.1, 7.21, 172.3; 530/350; 800/3

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 435/7.1, 7.21, 172.3; 530/350; 800/3

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
EAST, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,440,698 B1 (GURNEY et al) 27 August 2002 (27.08.2002), column 10, lines 30-59; column 7, lines 34-46; column 35, line 7 to column 36, line 21; Table 4.	1-7, 36-38, 46 ----- 15-35, 39-45, 47-54
X --- Y	HOOPER, N.M. et al. Membrane Protein Secretases. Biochem. J. 1997, Vol 321. pages 265-279, especially pages 268-272 (sections on (-amyloid precursor protein secretases and ACE secretase), and 275-276 (section on Secretase Assays, Whole Cell Assays).	1-7, 36-38 ----- 15-35, 39-45, 47-54
X --- Y	US 6,175,057 B1 (MUCKE et al) 16 January 2001 (16.01.2001), column 16, lines 1-58; column 17, lines 1-16.	1, 8-14 ----- 42-45, 53-54
Y	US 2002/0127564 A1 (NOLAN) 12 September 2002 (12.09.2002), entire document, especially page 2, paragraph 25 and 27; page 3, paragraphs 37-38; page 4, paragraphs 41-45; page 5, paragraphs 51-53; page 11, paragraphs 105-107.	15-20, 22-35, 47-54

☒ Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&"

document member of the same patent family

Date of the actual completion of the international search

24 September 2004 (24.09.2004)

Date of mailing of the international search report

20 OCT 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Facsimile No. (703) 305-3230

Authorized officer

Zachary C Howard

Telephone No. 571-272-2877

INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,420,110 B1 (GYURIS et al) 16 July 2002 (16.07.02) entire document, especially column 2, lines 31-33; column 19, lines 22-29; column 43, lines 22-24; column 18, lines 11-29; column 9, lines 36-37.	21, 24, 28, 32, 45, 52
Y	RIAN, E. et al. A Signal Sequence Trap Based on Cell Enrichment Using Anti-CD19 Antibody Coated Magnetic Beads. Scand J Immunol. September 2001. Vol 54, pages 280-284, entire document.	26
Y	PONCET, C. CD24, a glycoposphatidylinositol-anchored molecule is transiently expressed during the development of human central nervous system and is a marker of human neural cell lineage tumors. Acta Neuropathol. 1996, Vol. 91, No. 4, Abstract only.	30
Y	MURTHY, S.C. et al. Characterization of the interleukin 3 receptor. Exp Hematol. January 1990, Vol. 18, No. 1, Abstract only.	31
Y	MAZUR-KOLECKA, B. et al. Accumulation of Alzheimer amyloid-peptide in cultured myocytes is enhanced by serum and reduced by cerebrospinal fluid. J Neuropathol Exp Neurol. March 1997, Vol. 56, No. 3, Abstract only.	39-41, 51, 54